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IBM Technical Disclosure Bulletins

Term: (decreas$ or inhibit$ or reduc$ or ameliorat$ or eliminat$) near8 ole1

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DATE: Tuesday, October 02, 2007 **Purge Queries** Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT; PLUR=YES; OP=AND			
L1	(decreas$ or inhibit$ or reduc$ or ameliorat$ or eliminat$) near8 ole1	10	L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 10 of 10 returned.

1. 20060281071. 07 Jun 06. 14 Dec 06. Stearoyl-CoA desaturase assay. Ntambi; James M., et al. 435/4; 435/134 435/15 435/254.2 435/6 436/71 514/560 A61K31/202 20070101 C12N1/18 20070101 C12P7/64 20070101 C12Q1/00 20070101 C12Q1/48 20070101 C12Q1/68 20070101

2. 20060247196. 14 Jul 03. 02 Nov 06. Yeast genes that affect viral replication. Ahlquist; Paul G., et al. 514/44; 435/5 435/6 800/280 A01H1/00 20070101 A01N43/04 20070101 A61K48/00 20070101 C12Q1/68 20070101 C12Q1/70 20070101

3. 20060053512. 20 Dec 02. 09 Mar 06. Plant cyclopropane fatty acid synthase genes, proteins, and uses thereof. Bao; Xiaoming, et al. 800/281; 435/194 435/468 536/23.2 A01H1/00 20060101 C07H21/04 20060101 C12N15/87 20060101 C12N9/12 20060101

4. 20060051847. 06 Jun 05. 09 Mar 06. Metabolically engineered cells for the production of polyunsaturated fatty acids. Gunnarsson; Nina Katarina, et al. 435/134; 435/254.21 435/483 C12N1/18 20060101 C12N15/74 20060101 C12P7/64 20060101

5. 20050260590. 28 Dec 04. 24 Nov 05. Yeast-origin promoter and vector and expression system using the same. Sahara, Takehiko, et al. 435/6; 426/16 435/254.21 435/483 435/69.1 530/350 536/23.2 C12Q001/68 C07H021/04 C12P021/06 C12N001/18 C07K014/39 C12N015/74.

6. 20020182197. 14 Mar 02. 05 Dec 02. System for screening fatty acid transport inhibitors, methods of use and modulators identified thereby. Black, Paul, et al. 424/94.1; A61K038/43.

7. 20020037495. 23 Mar 01. 28 Mar 02. High throughput screening for inhibitors of fatty acid, ergosterol, sphingolipid, or phospholipid synthesis in fungi. Gutierrez, Juan Antonio, et al. 435/4; 435/6 435/7.3 514/1 A61K031/00 C12Q001/00 C12Q001/68 G01N033/569.

8. 20020016305. 12 Jan 01. 07 Feb 02. Yeast genes that affect viral replication. Ahlquist, Paul G., et al. 514/44; 435/25 435/5 A61K048/00 C12Q001/70 C12Q001/26.

9. 7070944. 14 Mar 02; 04 Jul 06. System for screening fatty acid transport inhibitors, methods of use and modulators identified thereby. Black; Paul, et al. 435/7.21; 435/252.3 435/252.8 435/325 435/350 435/69.1 435/7.1 435/7.2 435/7.37 435/71.1 435/71.2. C12N1/20 20060101 G01N33/53 20060101 .

10. 6825335. 30 May 01; 30 Nov 04. Synthetic fatty acid desaturase gene for expression in plants. Martin; Charles E., et al. 536/23.74; 435/183 435/189 536/23.1 536/23.2 800/281. C12N015/29 C12N015/53 C12N015/82 C12N015/31 A01H005/00 .

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Terms	Documents
(decreas$ or inhibit$ or reduc$ or ameliorat$ or eliminat$) near8 ole1	10

=> d his

(FILE 'HOME' ENTERED AT 15:49:55 ON 02 OCT 2007)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 15:50:43 ON 02 OCT 2007
L1 61 S (DECREAS? OR INHIBIT? OR REDUC? OR AMELIORAT? OR ELIMINAT?)(8
L2 15 DUP REM L1 (46 DUPLICATES REMOVED)

=> d au ti so pi 1-15 l2

L2 ANSWER 1 OF 15 MEDLINE on STN DUPLICATE 1
AU Tong Fumin; Black Paul N; Bivins Lori; Quackenbush Steven; Ctrnacta Vlasta; DiRusso Concetta C
TI Direct interaction of Saccharomyces cerevisiae Faa1p with the Omi/HtrA protease orthologue Ynm3p alters lipid homeostasis.
SO Molecular genetics and genomics : MGG, (2006 Apr) Vol. 275, No. 4, pp. 330-43. Electronic Publication: 2006-02-10.
Journal code: 101093320. ISSN: 1617-4615.

L2 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
AU Kuskov, A. N.; Villemson, A. L.; Shtilman, M. I.; Larionova, N. I.; Tsatsakis, A. M.
TI Nano-scaled polymeric aggregates with encapsulated model proteins
SO New Research on Biotechnology and Medicine (2006), 193-203. Editor(s): Egorov, A. M.; Zaikov, Gennady. Publisher: Nova Science Publishers, Inc., Hauppauge, N. Y.
CODEN: 69JGQE; ISBN: 1-60021-092-9

L2 ANSWER 3 OF 15 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
AU Martin, Charles E. [Reprint Author]; Kandasamy, Pitchaimani; Oh, Chan-Seok; Chellappa, Ramesh; Vemula, Murali
TI Fatty acid mediated mRNA stability of the saccharomyces OLE1 gene is controlled via Mga2p by exosome mediated degradation.
SO FASEB Journal, (MAR 4 2005) Vol. 19, No. 4, Suppl. S, Part 1, pp. A844. Meeting Info.: Experimental Biology 2005 Meeting/35th International Congress of Physiological Sciences. San Diego, CA, USA. March 31 -April 06, 2005. Amer Assoc Anatomists; Amer Assoc Immunologists; Amer Physiol Soc; Amer Soc Biochem & Mol Biol; Amer Soc Investigat Pathol; Amer Soc Nutr Sci; Amer Soc Pharmacol & Expt Therapeut; Int Union Physiol Sci.
CODEN: FAJOEC. ISSN: 0892-6638.

L2 ANSWER 4 OF 15 MEDLINE on STN DUPLICATE 2
AU Viegas Cristina A; Cabral M Guadalupe; Teixeira Miguel C; Neumann Grit; Heipieper Hermann J; Sa-Correia Isabel
TI Yeast adaptation to 2,4-dichlorophenoxyacetic acid involves increased membrane fatty acid saturation degree and decreased OLE1 transcription.
SO Biochemical and biophysical research communications, (2005 Apr 29) Vol. 330, No. 1, pp. 271-8.
Journal code: 0372516. ISSN: 0006-291X.

L2 ANSWER 5 OF 15 MEDLINE on STN DUPLICATE 3
AU Kandasamy Pitchaimani; Vemula Muralikrishna; Oh Chan-Seok; Chellappa Ramesh; Martin Charles E
TI Regulation of unsaturated fatty acid biosynthesis in Saccharomyces: the endoplasmic reticulum membrane protein, Mga2p, a transcription activator of the OLE1 gene, regulates the stability of the OLE1 mRNA through exosome-mediated mechanisms.
SO The Journal of biological chemistry, (2004 Aug 27) Vol. 279, No. 35, pp. 36586-92. Electronic Publication: 2004-06-25.
Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 6 OF 15 MEDLINE on STN DUPLICATE 4

AU Krishnamurthy Shankarling; Plaine Armel; Albert Juliane; Prasad Tulika; Prasad Rajendra; Ernst Joachim F
TI Dosage-dependent functions of fatty acid desaturase Ole1p in growth and morphogenesis of Candida albicans.
SO Microbiology (Reading, England), (2004 Jun) Vol. 150, No. Pt 6, pp. 1991-2003.
Journal code: 9430468. ISSN: 1350-0872.

L2 ANSWER 7 OF 15 MEDLINE on STN DUPLICATE 5
AU Nakagawa Y; Ueda A; Kaneko Y; Harashima S
TI Merging of multiple signals regulating delta9 fatty acid desaturase gene transcription in Saccharomyces cerevisiae.
SO Molecular genetics and genomics : MGG, (2003 Jun) Vol. 269, No. 3, pp. 370-80. Electronic Publication: 2003-05-06.
Journal code: 101093320. ISSN: 1617-4615.

L2 ANSWER 8 OF 15 MEDLINE on STN DUPLICATE 6
AU Martin C E; Oh C-S; Kandasamy P; Chellapa R; Vemula M
TI Yeast desaturases.
SO Biochemical Society transactions, (2002 Nov) Vol. 30, No. Pt 6, pp. 1080-2. Ref: 13
Journal code: 7506897. ISSN: 0300-5127.

L2 ANSWER 9 OF 15 MEDLINE on STN DUPLICATE 7
AU Shcherbik Natalia; Kumar Sharad; Haines Dale S
TI Substrate proteolysis is inhibited by dominant-negative Nedd4 and Rsp5 mutants harboring alterations in WW domain 1.
SO Journal of cell science, (2002 Mar 1) Vol. 115, No. Pt 5, pp. 1041-8.
Journal code: 0052457. ISSN: 0021-9533.

L2 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
IN Gutierrez, Juan Antonio; Bulawa, Christine Ellen; Blackman, Ronald K.; Gavrias, Victoria
TI High throughput screening for OLE1, YOL101c, and YGL039w gene promoters for inhibiting of fatty acid, ergosterol, sphingolipid, or phospholipid synthesis in fungi
SO PCT Int. Appl., 32 pp.
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001071045	A2	20010927	WO 2001-US9504	20010323
WO 2001071045	A3	20021128		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002037495	A1	20020328	US 2001-815588	20010323

L2 ANSWER 11 OF 15 MEDLINE on STN DUPLICATE 8
AU Jiang Y; Vasconcelles M J; Wretzel S; Light A; Martin C E; Goldberg M A
TI MGA2 is involved in the low-oxygen response element-dependent hypoxic induction of genes in Saccharomyces cerevisiae.
SO Molecular and cellular biology, (2001 Sep) Vol. 21, No. 18, pp. 6161-9.
Journal code: 8109087. ISSN: 0270-7306.

L2 ANSWER 12 OF 15 MEDLINE on STN DUPLICATE 9
AU Lee W M; Ishikawa M; Ahlquist P
TI Mutation of host delta9 fatty acid desaturase inhibits brome mosaic virus RNA replication between template recognition and RNA synthesis.

SO Journal of virology, (2001 Mar) Vol. 75, No. 5, pp. 2097-106.
Journal code: 0113724. ISSN: 0022-538X.

L2 ANSWER 13 OF 15 MEDLINE on STN DUPLICATE 10
AU Zhang S; Skalsky Y; Garfinkel D J
TI MGA2 or SPT23 is required for transcription of the delta9 fatty acid desaturase gene, OLE1, and nuclear membrane integrity in Saccharomyces cerevisiae.
SO Genetics, (1999 Feb) Vol. 151, No. 2, pp. 473-83.
Journal code: 0374636. ISSN: 0016-6731.

L2 ANSWER 14 OF 15 MEDLINE on STN DUPLICATE 11
AU Fujimori K; Anamnart S; Nakagawa Y; Sugioka S; Ohta D; Oshima Y; Yamada Y; Harashima S
TI Isolation and characterization of mutations affecting expression of the delta9- fatty acid desaturase gene, OLE1, in Saccharomyces cerevisiae.
SO FEBS letters, (1997 Aug 18) Vol. 413, No. 2, pp. 226-30.
Journal code: 0155157. ISSN: 0014-5793.

L2 ANSWER 15 OF 15 MEDLINE on STN DUPLICATE 12
AU Gonzalez C I; Martin C E
TI Fatty acid-responsive control of mRNA stability. Unsaturated fatty acid-induced degradation of the Saccharomyces OLE1 transcript.
SO The Journal of biological chemistry, (1996 Oct 18) Vol. 271, No. 42, pp. 25801-9.
Journal code: 2985121R. ISSN: 0021-9258.

=> s (decreas? or inhibit? or reduc? or ameliorat? or eliminat?)(8a)ole1(3a)(protein or polypeptide or desaturase)
L3 1 (DECREAS? OR INHIBIT? OR REDUC? OR AMELIORAT? OR ELIMINAT?)(8A) OLE1(3A)(PROTEIN OR POLYPEPTIDE OR DESATURASE)

=> d bib ab l3

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2001:135323 CAPLUS
DN 135:222201
TI Mutation of host Δ9 fatty acid desaturase inhibits brome mosaic virus RNA replication between template recognition and RNA synthesis
AU Lee, Wai-Ming; Ishikawa, Masayuki; Ahlquist, Paul
CS Howard Hughes Medical Institute and Institute for Molecular Virology, University of Wisconsin-Madison, Madison, WI, 53706, USA
SO Journal of Virology (2001), 75(5), 2097-2106
CODEN: JOVIAM; ISSN: 0022-538X
PB American Society for Microbiology
DT Journal
LA English
AB All pos.-strand RNA viruses assemble their RNA replication complexes on intracellular membranes. Brome mosaic virus (BMV) replicates its RNA in endoplasmic reticulum (ER)-associated complexes in plant cells and the yeast Saccharomyces cerevisiae. BMV encodes RNA replication factors 1a, with domains implicated in RNA capping and helicase functions, and 2a, with a central polymerase-like domain. Factor 1a interacts independently with the ER membrane, viral RNA templates, and factor 2a to form RNA replication complexes on the perinuclear ER. The authors show that BMV RNA replication is severely inhibited by a mutation in OLE1, an essential yeast chromosomal gene encoding Δ9 fatty acid desaturase, an integral ER membrane protein and the first enzyme in unsatd. fatty acid synthesis. OLE1 deletion and medium supplementation show that BMV RNA replication requires unsatd. fatty acids, not the Ole1 protein, and that viral RNA replication is much more sensitive than yeast growth to reduced unsatd. fatty acid levels. In ole1 mutant yeast, 1a still becomes membrane associated, recruits 2a to the membrane, and recognizes and

stabilizes viral RNA templates normally. However, RNA replication is blocked prior to initiation of neg.-strand RNA synthesis. The results show that viral RNA synthesis is highly sensitive to lipid composition and suggest that proper membrane fluidity or plasticity is essential for an early step in RNA replication. The strong unsatd. fatty acid dependence also demonstrates that modulating fatty acid balance can be an effective antiviral strategy.

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ALL CITATIONS AVAILABLE IN THE RE FORMAT

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